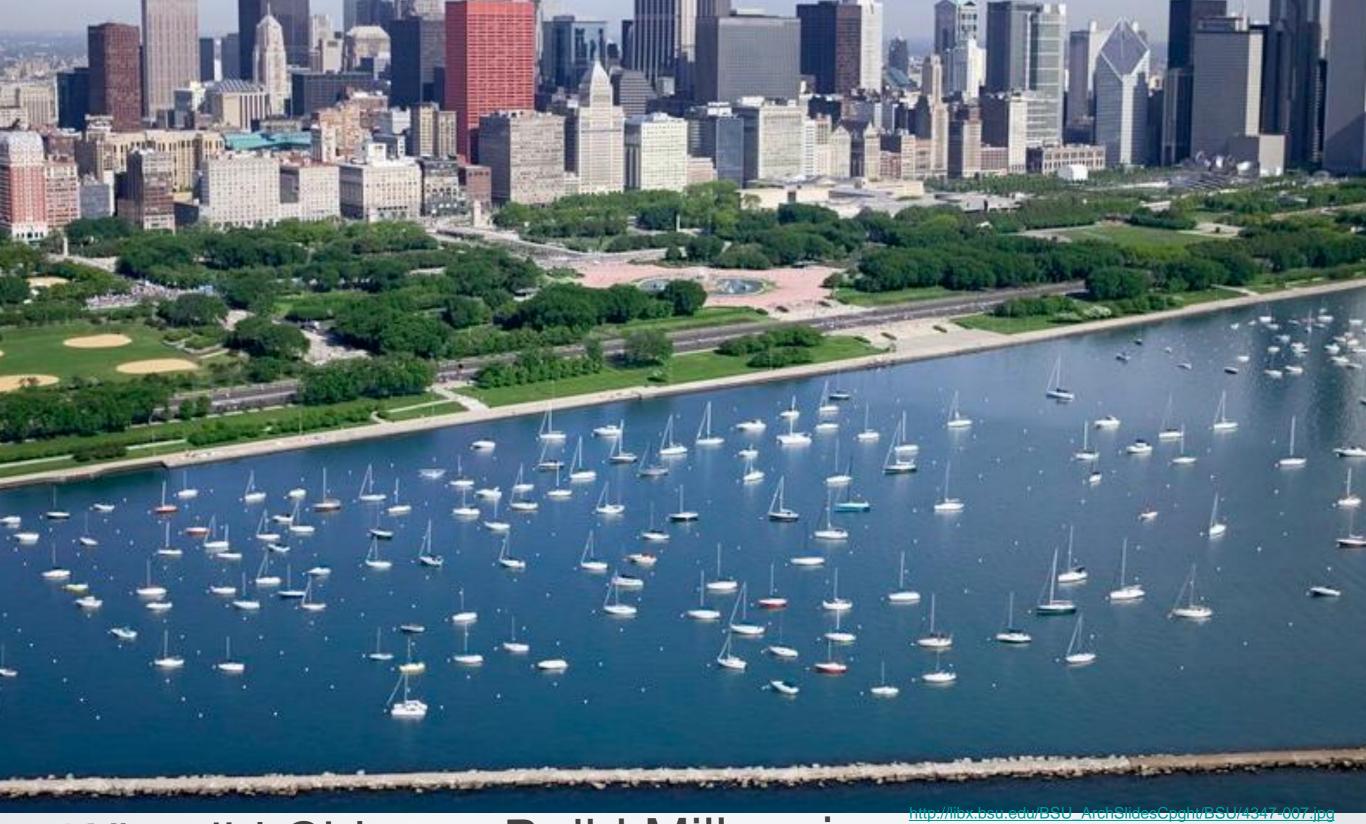
Community design

Michel A. Mounayar, R.A.

Professor of Architecture and Associate dean College of Architecture and Planning Ball State University

What is QuAlity of Life?



Why did Chicago Build Millennium Park?



What makes Hong Kong so special?



Huntington, IN Image by Seth Edward

http://www.sethedward.com/2007/04/indiana-sunset-indiana-farm.html

Beauty is not just in large exotic places

It's about opportunity

A Full Production

Putting together a hit theater piece

Creating mood and memory

the city as stage

NEED A PLOT
ACTORS
STAGE
SET
AUDIENCE
ORCHESTRA
SUPPORT INFRASTRUCTURE

THE ART is that OF living









What is Quality of Life?

to people

jobs Education Health Culture Services Connectivity Natural Beauty

Fun



FortWayne

Health

Table 1. Age-adjusted prevalence of overweight, obesity, and extreme obesity among U.S. adults aged 20 and over

Sample size and weight status	NHANES 1988-1994	NHANES 1999-2000	NHANES 2001-2002	NHANES 2003-2004	NHANES 2005-2006	NHANES 2007-2008
Sample (n)	16,679	4,117	4,413	4,431	4,356	5,555
Overweight (25 ≤ BMI < 30)	33.1	34.0	35.1	34.1	32.7	34.2
Obese (BMI ≥ 30)	22.9	30.5	30.6	32.2	34.3	33.8
Extremely obese (BMI ≥ 40)	2.9	4.7	5.1	4.8	5.9	5.7

NOTES: NHANES is National Health and Nutrition Examination Survey; BMI is body mass index. Age-adjusted by the direct method to the year 2000 U.S. Census Bureau estimates using the age groups 20-39, 40-59, and 60 years and over. Crude estimates (not age adjusted) for 2007-2008 are 34.4% overweight, 33.9% obese, and 5.7% extremely obese. Pregnant females were excluded from the analysis.

Table 1. Prevalence of obesity among U.S. children and adolescents aged 2-19, for selected years 1963-1965 through 2007-2008

Age (in years) ¹	NHANES 1963-1965 1966-1970 ²	NHANES 1971-1974	NHANES 1976-1980	NHANES 1988-1994	NHANES 1999-2000	NHANES 2001-2002	NHANES 2003-2004	NHANES 2005-2006	NHANES 2007-2008
Total	(3)	5.0	5.5	10.0	13.9	15.4	17.1	15.5	16.9
2-5	(3)	5.0	5.0	7.2	10.3	10.6	13.9	11.0	10.4
6-11	4.2	4.0	6.5	11.3	15.1	16.3	18.8	15.1	19.6
12-19	4.6	6.1	5.0	10.5	14.8	16.7	17.4	17.8	18.1

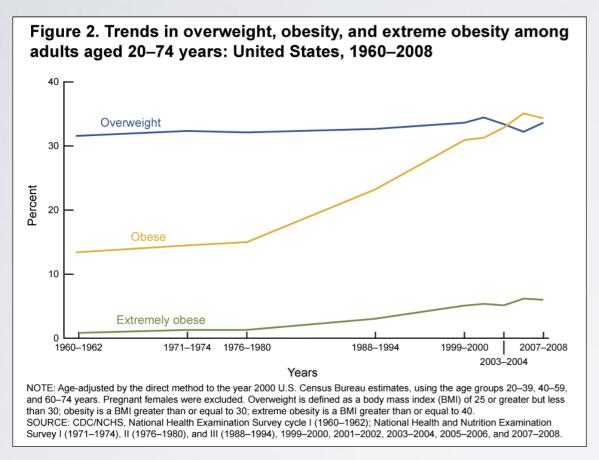
Excludes pregnant women starting with 1971-1974. Pregnancy status not available for 1963-1965 and 1966-1970.

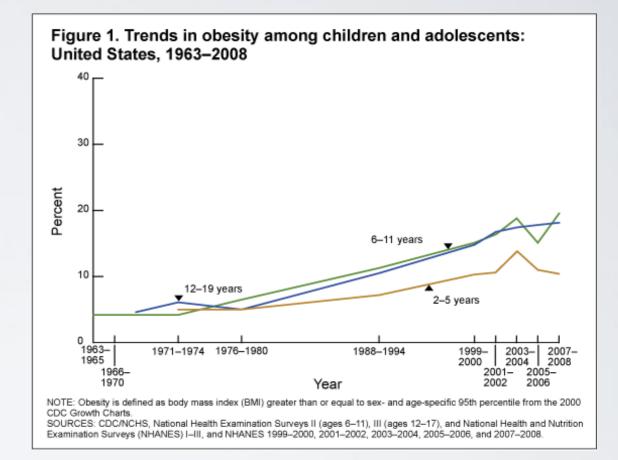
NOTE: Obesity defined as body mass index (BMI) greater than or equal to sex- and age-specific 95th percentile from the 2000 CDC Growth Charts.

² Data for 1963-1965 are for children aged 6-11; data for 1966-1970 are for adolescents aged 12-17, not 12-19 years.

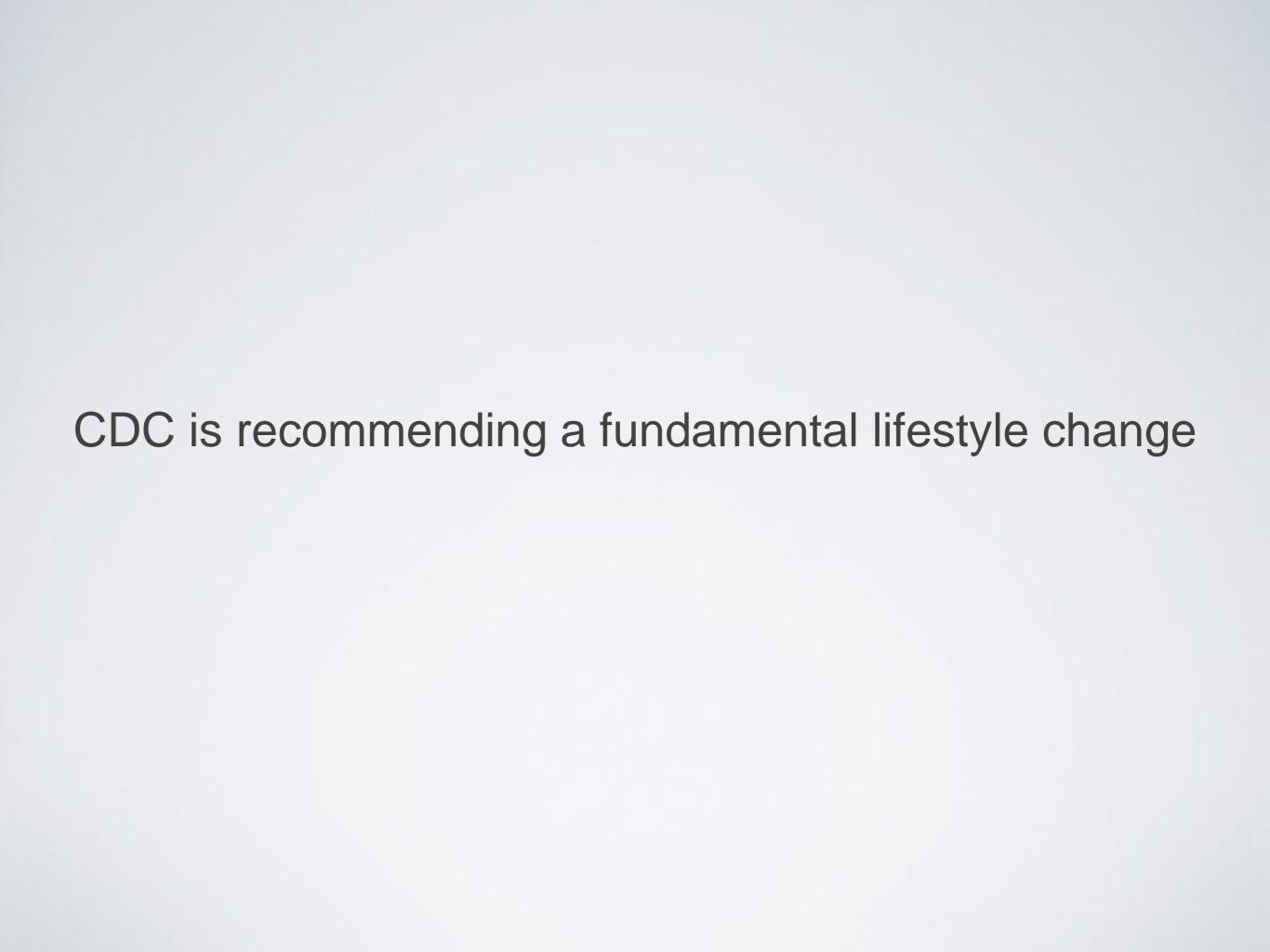
³ Children aged 2-5 were not included in the surveys undertaken in the 1960s.

Related to food quality + intake + activity





17 % reported not having Health care coverage Only 79 % have some Health care coverage



Healthy communities CDC recommendations

- Mixed land use and more land density to shorten distances between homes, workplaces, schools and recreation
- •Transportation alternatives including bicycle trails, sidewalks and mass transit
- Affordable housing so that people of all income levels can afford to live in healthy communities
- •Town centers close to where people live so they can walk or bike to shopping, everyday errands, places of worship and social activities
- •Greenspace, trails and parks to provide more opportunities for contact with nature.

jobs

WHAT WILL BE THE IMPACT OF ENERGY PRICES ON JOBS?

Culture

CHANGE MUST BE WITHIN THE CULTURE OF THE PLACE?

Services

What kind of Services?

Medical

Municipal

Home/neighborhood support

Connectivity

Physical:
Sidewalks
Bikeways
Public Spaces (chance meetings)
Cafe
Restaurants
Libraries

Digital:
Bandwidth
Access Hubs



Natural Beauty

Indiana was a dense old growth forest reminiscent of the Black Forest of Germany

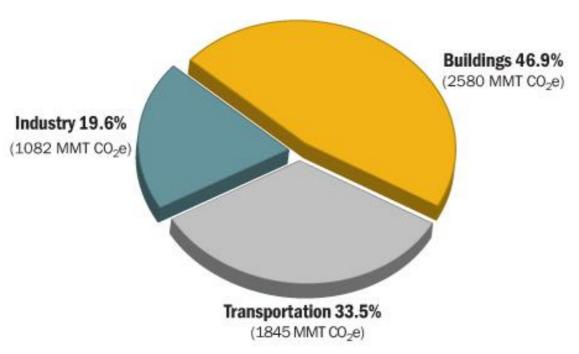
FUN

SUSTAINABILITY

The most popular definition of sustainability can be traced to a 1987 UN conference. It defined sustainable developments as those that "meet present needs without compromising the ability of future generations to meet their needs" (WECD, 1987).

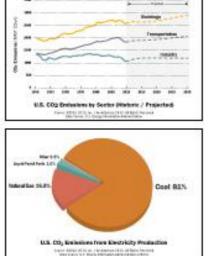
WAIST = FOOD

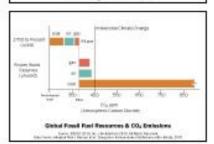
SYSTEM THINKING



U.S. CO₂ Emissions by Sector

Source: ©2010-2030, Inc. / Architecture 2030. All Rights Reserved. Data Source: U.S. Energy Information Administration (2009).





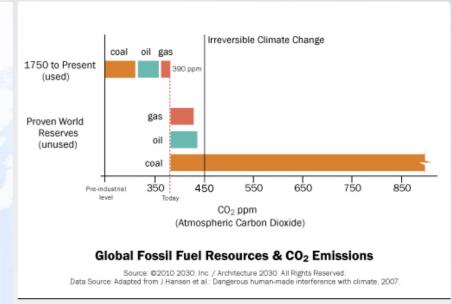
Slideshow -

The Building Sector consumes more energy than any other sector. Most of this energy is produced from burning fossil fuels, making this sector the largest emitter of greenhouse gases on the planet – and the single leading contributor to anthropogenic (human forcing) climate change. According to the U.S. Energy Information Administration (EIA), nearly half (46.9%) of all CO₂ emissions in 2009 came from the Building Sector. By comparison, transportation accounted for 33.5% of CO₂ emissions and industry, just 19.6%.

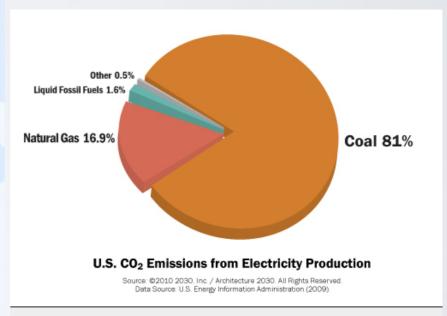
81% of U.S. Electricity CO₂ Emissions Come From Coal. 77% of This Electricity is Consumed by the Building Sector.

Jet Propulsion Laboratory | California Institute of Technology

CLIMATE TIME MACHINE average global temperature temperature difference 2007 This color-coded map shows a progression of changing global surface temperatures from 1885 to 2007. Dark blue indicates areas cooler than average. Dark red indicates areas warmer than average. (Credit: NASA/Goddard Scientific Visualization Studio) Sea Ice Carbon Emissions Average Global Temperature



Oil and natural gas cannot fuel irreversible climate change. Coal Can. To keep below 450ppm it is critical to phase-out coal and reduce our demand for energy.

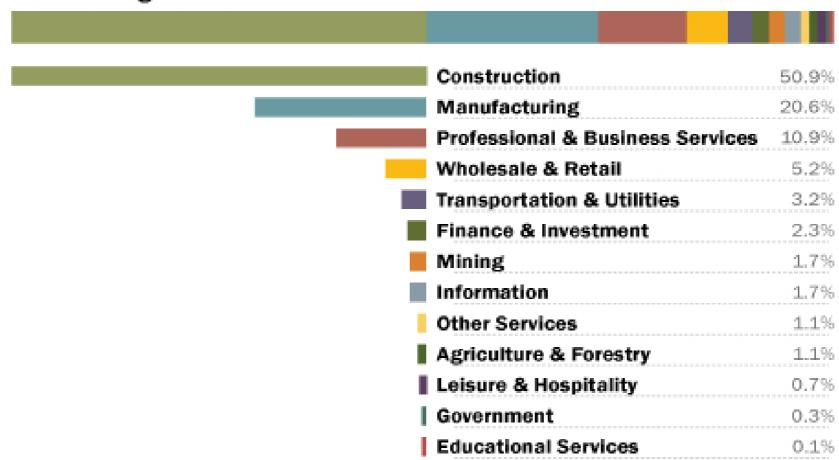


81% of the electricity produced in the U.S. comes from coal alone. An additional 18.5% comes from other $\rm CO_2$ emitting sources: natural gas and liquid fossil fuels.

The Economy

The Health of the Economy is Tied to the Building Sector

The Building Sector:



Building Sector Economic Inputs by Industry Type

Source: ©2010-2030, Inc. / Architecture 2030. All Rights Reserved.

Data Source: U.S. Bureau of Economic Analysis.

Brief History of Urban Planning in the US

Our recent Past

WW I - WW II



C. 1900

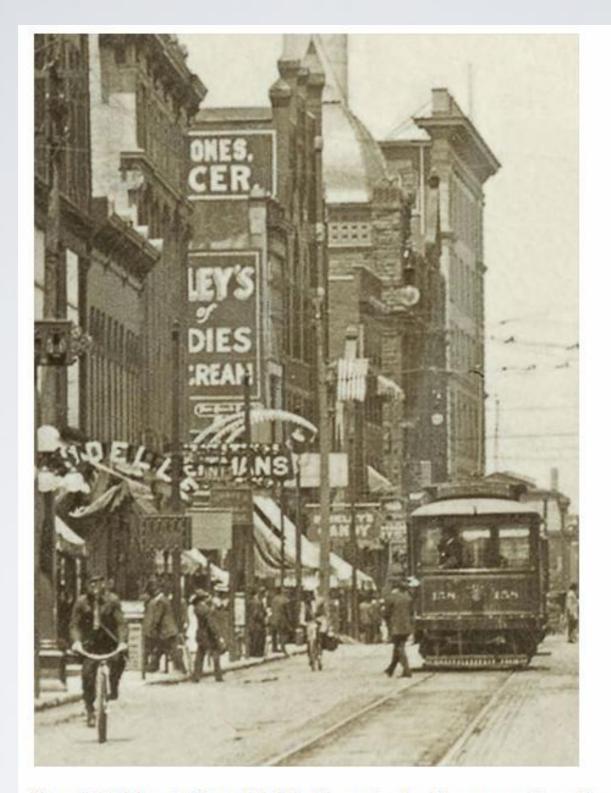


DELAWARE COUNTY COURTHOUSE 1900





From the collection of Jeffrey Koenker.



South Walnut Street 017, Muncie, Indiana section 6

c1910 postcard view of South Walnut Street in Muncie showing a streetcar, horse-drawn buggies, bicycles and pedestrians. Business signs on the left side of the street include: Dr. Coffman; Peoples Clothing Co.; Gordon & Bishop Hardware; Majestic Theatre; Benzenbower Meat Market; Bridgman (?) store; B. (?) Fudge Co.; and Minkley's Candy. On the right side are signs for: Union Clothing Co.; McNaughton's Department Store; I. B. Manilla Clothier; and Dr. Surber.

From the collection of Jeffrey Koenker.

The full postcard image can be seen here.



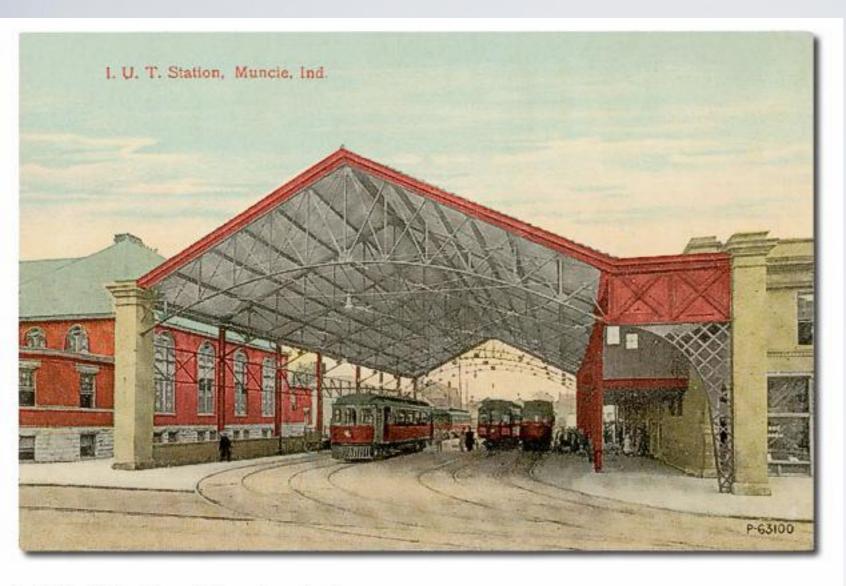




EC/GNONY

THE GREATER ECONOMY SHOE STOR

a Displays



I. U. T. Station, Muncie, Indiana

c1910 postcard view of the car shed for the Indiana Union Traction Co. terminal in Muncie, Indiana. the terminal building/waiting room was located on the southeast corner of South Mulberry and East Charles Streets. The shed was attached to the east side of that building. I believe the structure at the left edge of the view is the 1st Baptist Church.

From the collection of Thomas Keesling.



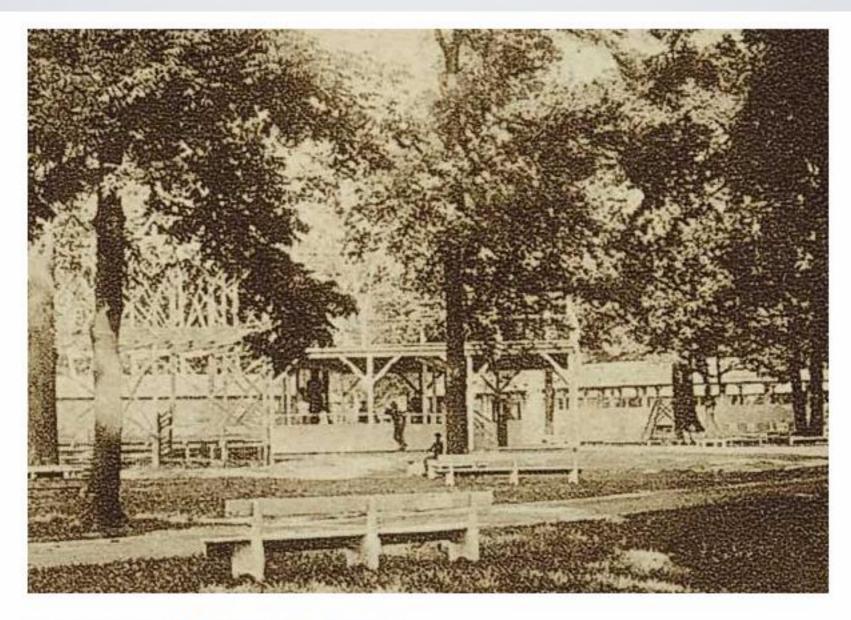
Congerville & Whiteley streetcar, Muncie, Indiana

1909 postmarked postcard view of the crew posing with their Congerville & Whiteley streetcar in Muncie, Indiana.

A different view of a Congerville & Whiteley streetcar can be found in the <u>Muncie Indiana in Vintage</u> <u>Postcards</u> book from Arcadia Press.

From the collection of Jane Lyle.





West Side Park, Muncie, Indiana

1908 postmarked sepia postcard view of the roller coaster, skating rink, park benches and other facilities at West Side Park in Muncie, Indiana.

The full postcard image can be seen here.

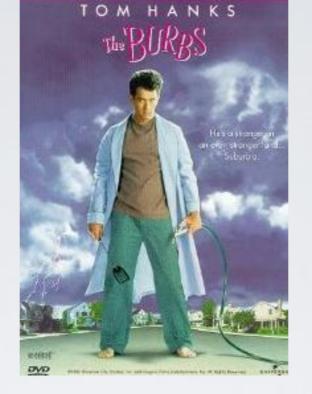


What did we have

Centrality Density Cities owned utilities Neighborhoods Neighborhood schools **Local Financial Institutions** Closed loop economy Boutique shopping(small businesses) Public transportation Civic space People Centered Places

Suburbanization

Automobile centered places.



Sprawl

1950-1980

Suburbanization Policies:

- 1. Interstate Highway system
- 2. Lending policies
- 3. Tax code
- 4. Land use/Flat zoning
- 5. Inexpensive land outside urban centers

Impact:

- 1. Isolation
- 2. Loss of community
- 3. Unhealthy life styles
- 4. High dependence on transportation Cars
- 5. Pollution
- 6. Stress
- 7. Loss of Farm Land
- 8. Automobile oriented space. Not friendly to humans
- 9. Extension/Duplication of expensive city services
- 10. Deterioration of Urban core
- 11. Loss of Identity
- 12. consolidation of School systems

New Urbanism

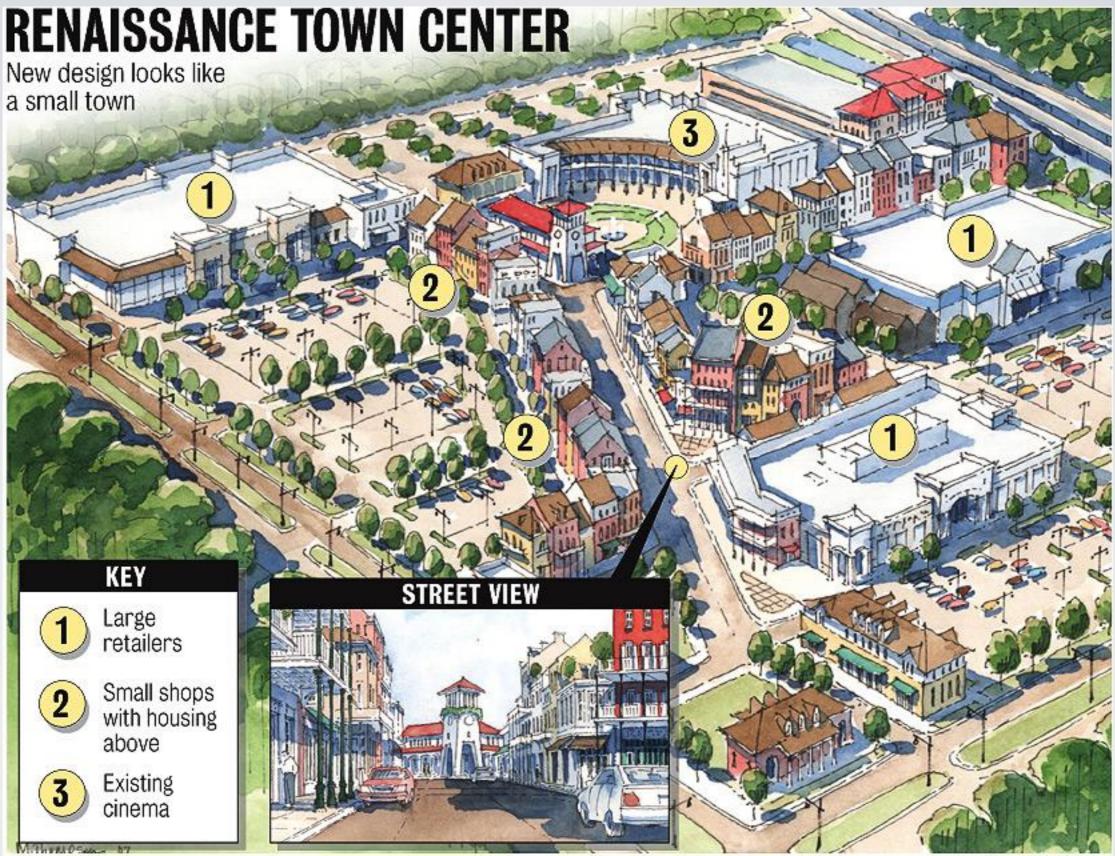
1980-2000

Smart Growth

Return to people centered places



Seaside, Florida



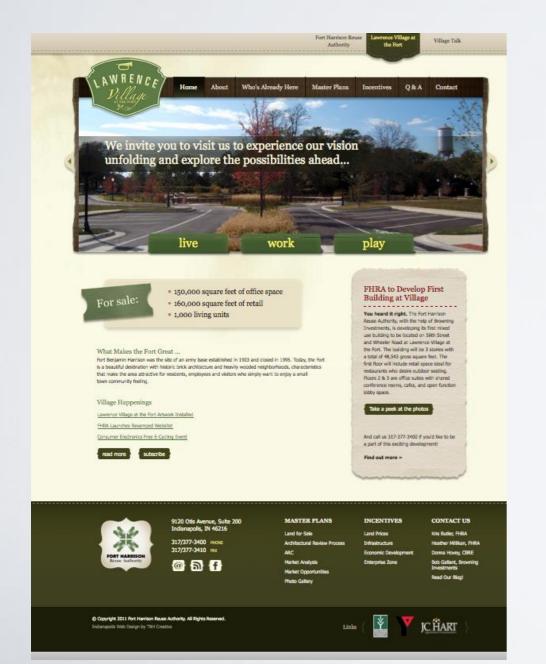
SOURCE: Urban Design by Duany, Plater-Zyberk; architectural design by Mike Thompson of Barranco Architects

STAFF GRAPHIC



Fort Harrison, Lawrence Village Indianapolis

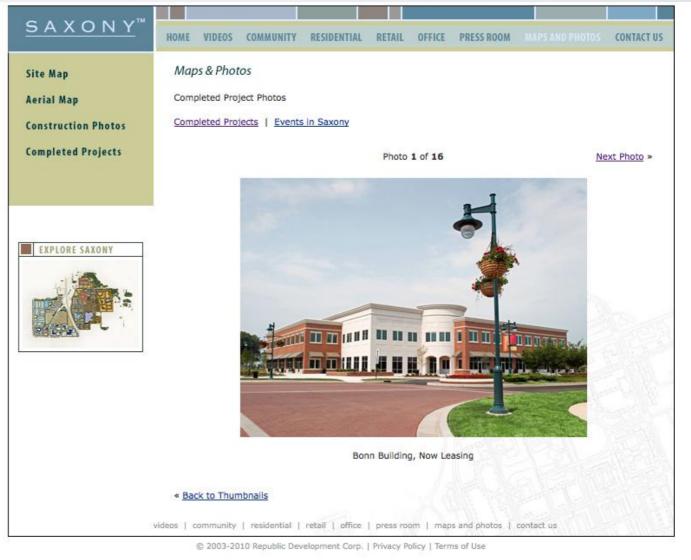
Tehttp://www.lawrencevillageatthefort.com/about/Home/default.aspxxt





Fall Creek Place Indianapolis

Tehttp://www.fallcreekplace.com/index.php?module=content&func=view&pid=1xt



Fishers Indiana

Intelligent Cities

2000-Present

Energy - Food - Water

+ FUN



COPYRIGHT: Heerhugowaard, Stad van de Zon (City of the Sun), 2006









Census 2010

Interactive Population Map

The 2010 Census reported 308.7 million people in the United States, a 9.7 percent increase from the 2000 Census population of 281.4 million. Find out who we are, where we are and compare your community with others across America. Learn more about the new Portrait of America.

T	OTAL POPULATION	
\subset	RACE	
\subset	ETHNICITY	
\subset	AGE / SEX	
	HOUSEHOLD)

Most Populous Places

	NAME	POPULATION	
-1	New York city, NY	8,175,13	Δ
2	Los Angeles city, CA	3,792,62	
3	Chicago city, IL	2,695,59	
4	Houston city, TX	2,099,45	
5	Philadelphia city, PA	1,526,00	
6	Phoenix city, AZ	1,445,63	
7	San Antonio city, TX	1,327,40	
8	San Diego city, CA	1,307,40	
9	Dallas city, TX	1,197,81	
10	San Jose city, CA	945,942	
11	Jacksonville city, FL	821,784	
12	Indianapolis city (balance), IN	820,445	
13	San Francisco city, CA	805,235	
14	Austin city, TX	790,390	
15	Columbus city, OH	787,033	
16	Fort Worth city, TX	741,206	-

National Population: 308,745,538

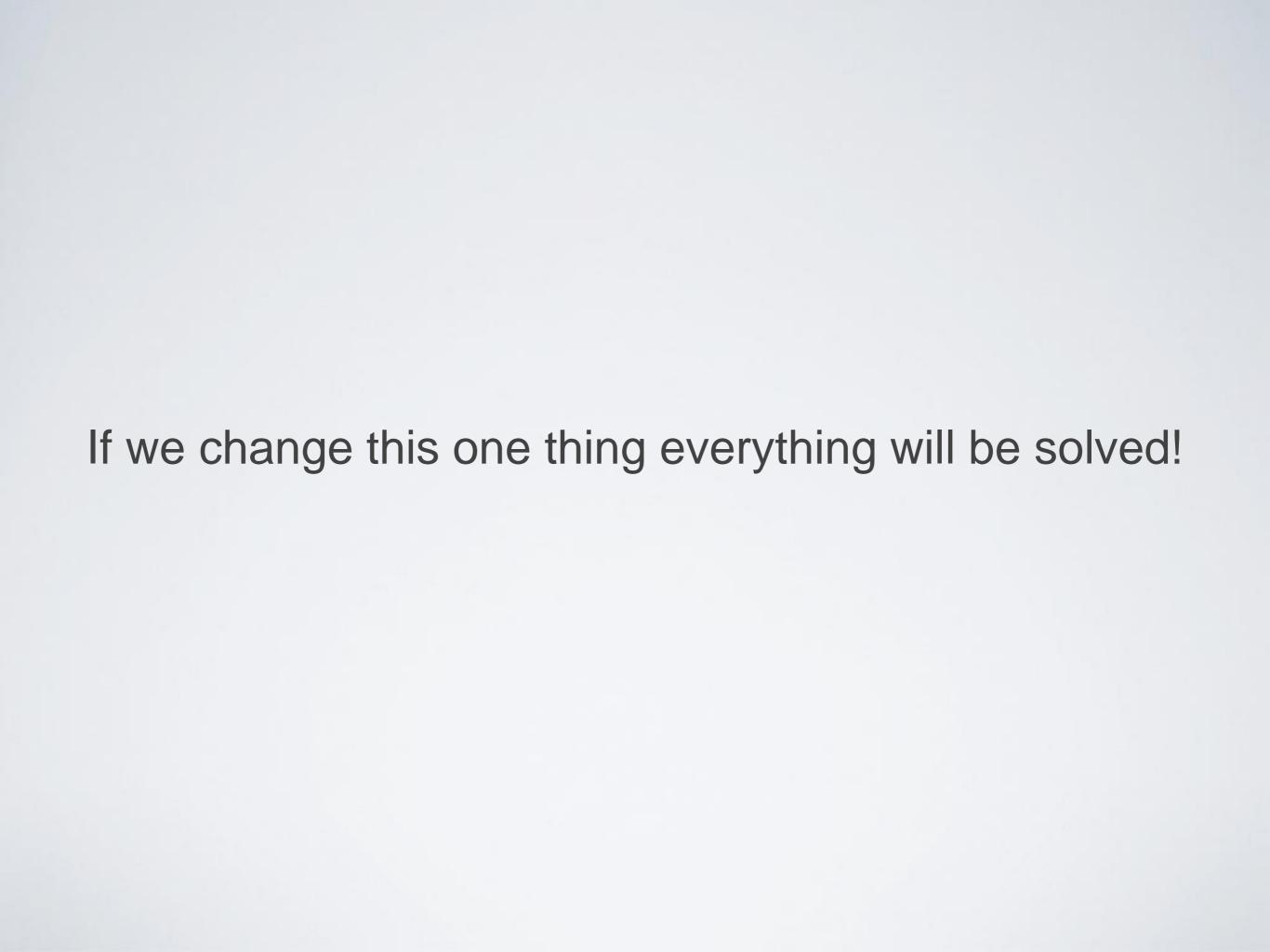


How to Move Forward

Vision. Leadership. Courage



FUN



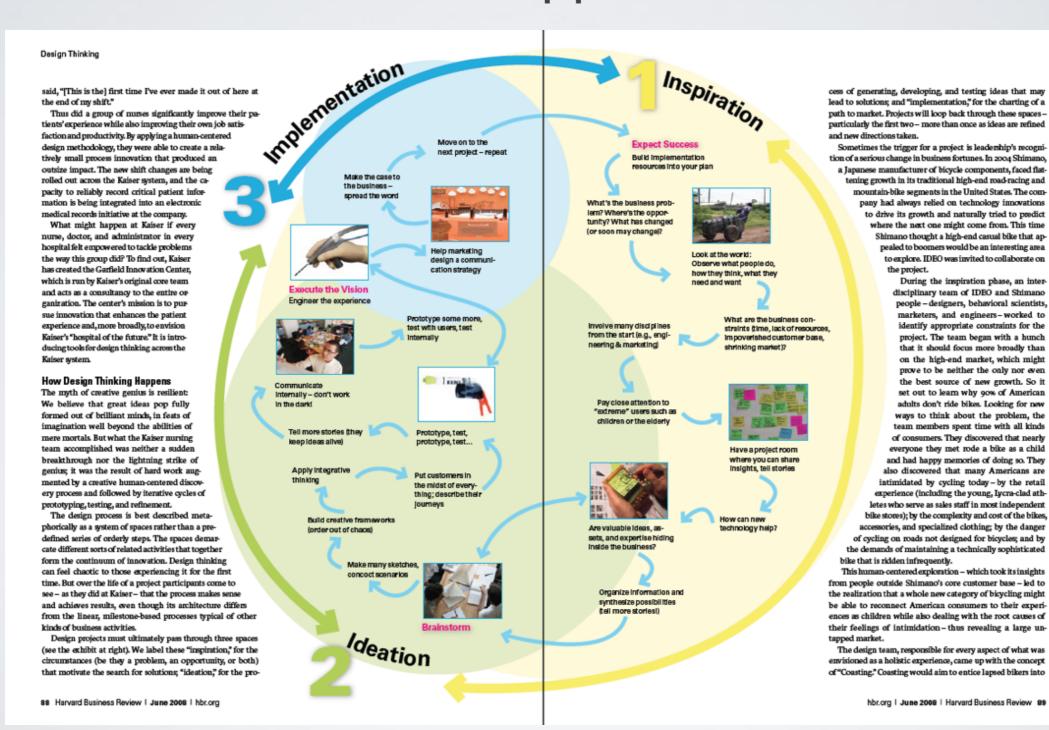
Schools are paramount

Good Design is too expensive!

Design is thinking

Design Thinking

"Take a human centered approach" Tim Brown IDEO

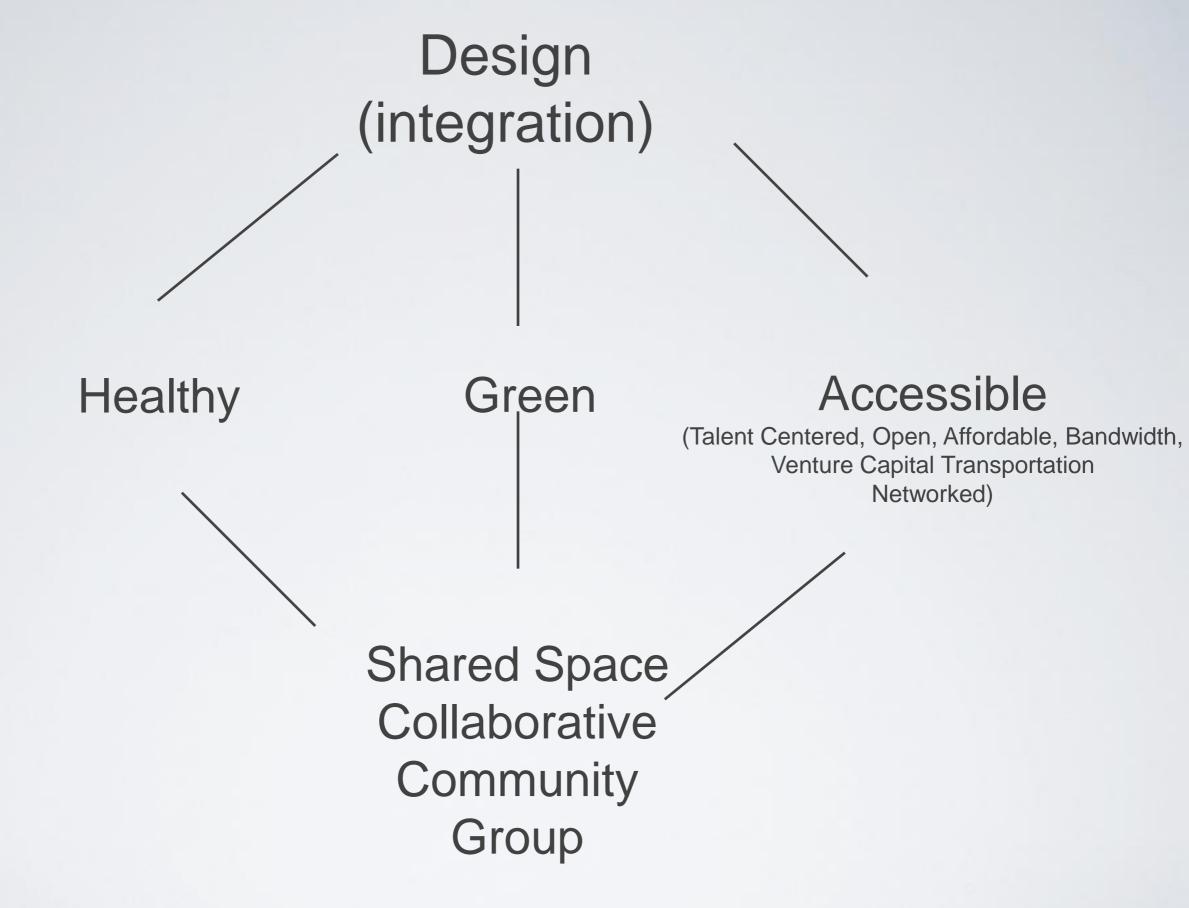


Bring Play back

people want to live in fun places

Change by design

human centered places



INTERCONNECTIVITY AND CONVERGENCE

"WHY DON'T THEY EAT CAKE"



We need more mechanism for above ground improvements
Infrastructure development must be expanded to include Intelligent development Increased density Reduce trip length
Allow for people based transportation for daily life

Rikeways and sidewalks

What Effect does QL have on economic development?

"HUMAN CENTERED ECONOMIC DEVELOPMENT"

"Do you want the headquarters or the branch office?" Mike Hicks,

Ball State University Economist

Thank You!